

PDR RID Report

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Section User Model Components **Page** AE-7 and AE-8

Figure Table NA

Category Name User & Algorithm Models

Actionee HAIS

Sub Category

Subject User demographics

Description of Problem or Suggestion:

1) The science user demographics were based on the 1993 Survey of Journals and relative populations based on memberships of Professional Societies. A verification of the accuracy of the demographics so obtained will be useful. 2) It was stated that the distribution of EOS investigators was corrected for international users. How is this done? What are the assumptions? Has the distribution of the international users in the five user disciplines also been obtained? If so it will be a starting point for estimation of the "pull" load from the international Earth Science Community.

Originator's Recommendation

Feasibility of verifying the user demographics using 'operational V0 experience' should be examined. In addition, the model components should adequately represent the international users and their data and service needs.

GSFC Response by:

GSFC Response Date

HAIS Response by: Eisenstein

HAIS Schedule

HAIS R. E. C. Jarvis

HAIS Response Date 5/22/95

Verification of the science use demographics derived from the survey of journal and professional organizations has been obtained through comparison with independent studies conducted by ECS user modellers, Mary James (1991), Bruce Barkstrom (1991) and the ECS IV&V contractors (McGoldrick et al., 1994). Though the studies were conducted independently, estimates regarding the size and composition of the science users community were similar. For instance, the estimate of the total science user population used in PDR modeling was 13,708, while a second estimate by ECS modellers using independent methods ranged from 10,400 - 18,100 (Thome, et al. 1994). James (1991) estimated the science user community at 18,363; while Barkstrom (1991) estimated it at 3,000 - 10,000. Finally, McGoldrick et al. (1994) conducted an independent study that found the relative composition of the community to be roughly the same.

The distribution of science user accesses over time of day included international users that comprise 1/3 of the user pull population. This was verified by an independent study by ESA, which estimated the non-U.S. earth science user population at 4,000 to 6,000 (Fusco, personal communication). To distribute the international users to various timezones, locations of major international remote sensing centers were identified, and international users were distributed according to the relative proportions of users at each of the centers.

The distribution of the international community in the five user disciplines has not been obtained separately from U.S users, but was not required for the time of day estimates. Since the survey of journals and professional organizations included international users, the relative compositions of the disciplines also included international users.

Data being collected for the CDR time frame can provide distribution of the international community across disciplines if required for analysis. V0 usage statistics, which have recently become available, are being analyzed for demographic information as well as other user model relevant data. Also, an EOSDIS Product Usage Survey was just released to science users (including international users). It will provide discipline and location information that can be used to address this question.

Literature cited:

Barkstrom, B. 1991. A Preliminary EOSDIS User Model. Preliminary Draft.

James, M.E. 1991. Version 0 Usage Study. Draft Document

McGoldrick, L., Sanyal, A. 1994. EOSDIS Modeling Assessment Report, EOSDIS User Characterization Analysis, Deliverable #0506, Preliminary Draft.

Thome, P. 1994. Projected System Access and Utilization. EOSDIS Core System, System Design Review. Presentation.

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Thome, P. 1994. Projected System Access and Utilization. EOSDIS Core System, System Design Review. Presentation.

Status **Closed**

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Sponsor **Daly**

***** **Attachment if any** *****
